

# F I G . 1

HYDROGEN ABSORBING MATERIAL	YIELD STRESS (MPa)	HYDROGEN ABSORPTION AMOUNT (% BY MASS)
Pd	51	0.5
86at%Mg-9.5at%Ni-4.5at%Nd	260	5.6
90at%Mg-10at%Ni	150	6.1
8at%Ca-17at%Mg-75at%Ni <sub>9</sub>	275	1.6
83at%Mg-17at%Y	245	5.0
85at%Mg-10at%Ni-5at%Ce	240	5.6
99.9at%Mg	40	7.4
99at%Mg-1at%Ti	42	7.0
99at%Mg-1at%V	41	7.0
40at%Ti-35at%V-25at%Cr	300	3.6

TABLE 1

# F1G . 2

SAMPLE NO.	STRUCTURE OF MALTILAYERED HYDROGEN ABSORBING BODY AND THICKNESS OF EACH LAYER (nm)	HYDROGEN DESORPTION AMOUNT (% BY MASS)
# 1	Pd(20)/86at%Mg-9.5at%Ni-4.5at%Nd(50)/Pd(20)	5.1
# 2	Pd(20)/86at%Mg-9.5at%Ni-4.5at%Nd(100)/Pd(20)	5.0
# 3	Pd(20)/86at%Mg-9.5at%Ni-4.5at%Nd(200)/Pd(20)	4.9
# 4	Pd(20)/86at%Mg-9.5at%Ni-4.5at%Nd(100)/Pd(20) /86at%Mg-9.5at%Ni-4.5at%Nd(100)/Pd(20)/86at%Mg -9.5at%Ni-4.5at%Nd(100)/Pd(20)	5.1
# 5	86at%Mg-9.5at%Ni-4.5at%Nd(100)/Pd(20)	5.2
# 6	Pd(20)/90at%Mg-10at%Ni(50)/Pd(20)	6.0
# 7	8at%Ca-17at%Mg-75at%Ni <sub>9</sub> (50)/86at%Mg-9.5at%Ni -4.5at%Nd(100)/8at%Ca-17at%Mg-75at%Ni <sub>9</sub> (50)	3.4
# 8	8at%Ca-17at%Mg-75at%Ni <sub>9</sub> (50)/86at%Mg-9.5at%Ni -4.5at%Nd(100)/90at%Mg-10at%Ni(50)	4.2
# 9	86at%Mg-9.5at%Ni-4.5at%Nd(100)/83at%Mg-17at%Y(50)	5.5
# 10	85at%Mg-10at%Ni-5at%Ce(100)/86at%Mg-9.5at%Ni -4.5at%Nd(100)/85at%Mg-10at%Ni-5at%Ce(100)	5.4
# 11	Pd(20)/99at%Mg-1at%Ti(50)/Pd(20)	0.0
# 12	Pd(20)/99at%Mg-1at%V(50)/Pd(20)	0.1
# 13	Pd(20)/99.9at%Mg(50)/Pd(20)	0.1
# 14.	Pd(20)/40at%Ti-35at%V-25at%Cr(50)/Pd(20)	3.2
REFERENTIAL EXAMPLE	40at%Ti-35at%V-25at%Cr (INGOT)	2.2

TABLE 2